

## Transduction of T-cells with [SNV-scFv-Env] vectors

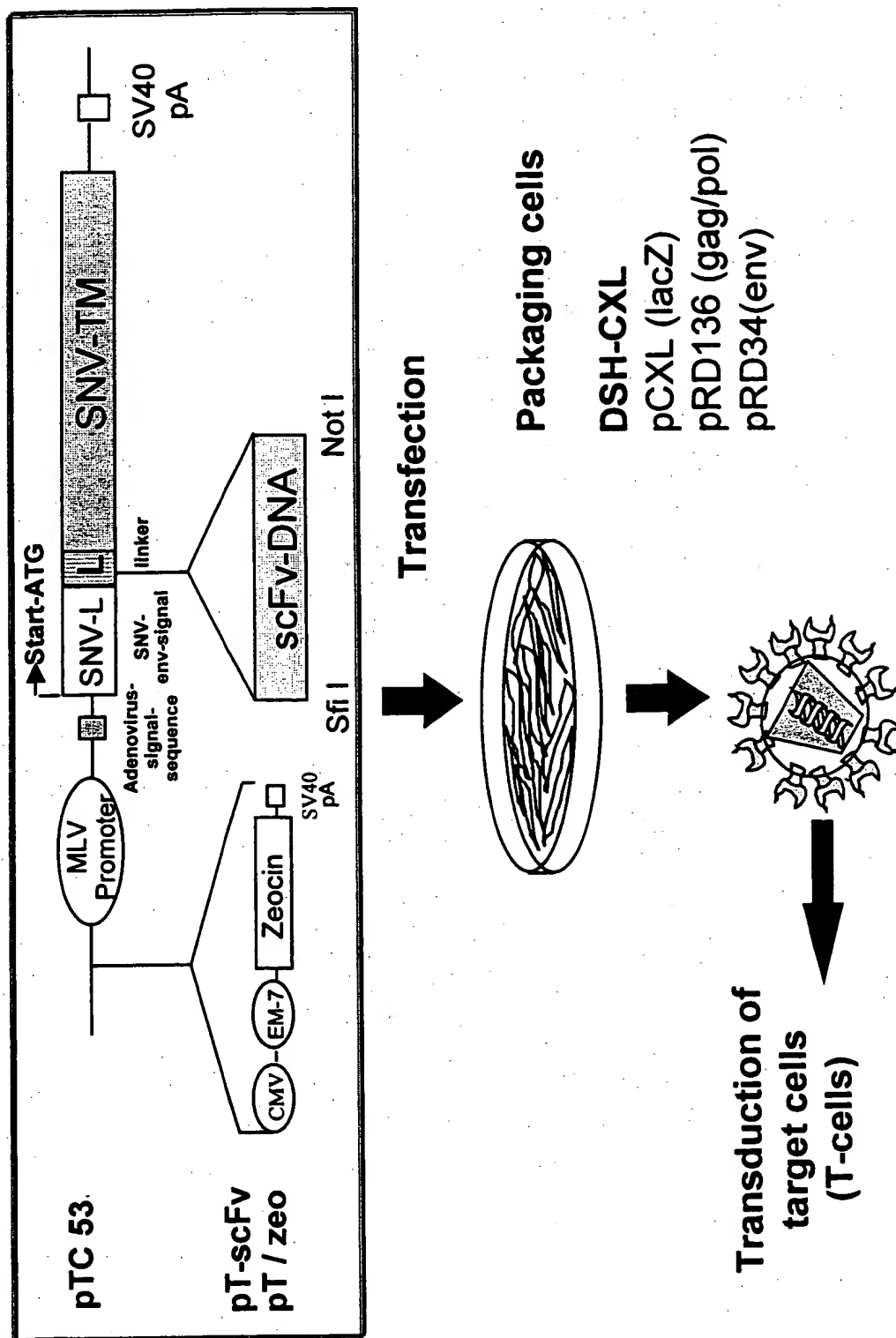


Fig. 1



## Production of a SNV-scFv-Env vector library

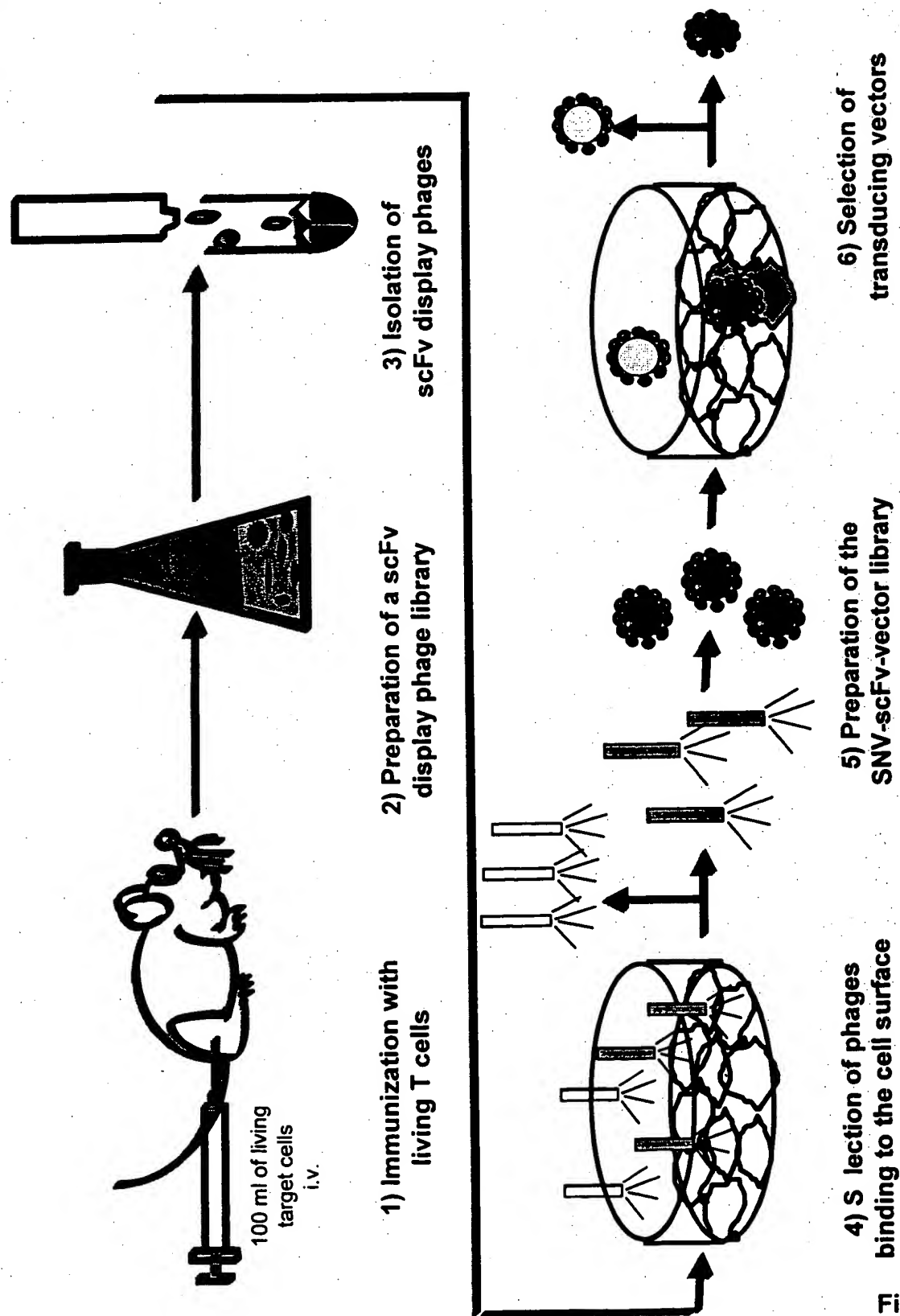


Fig. 2

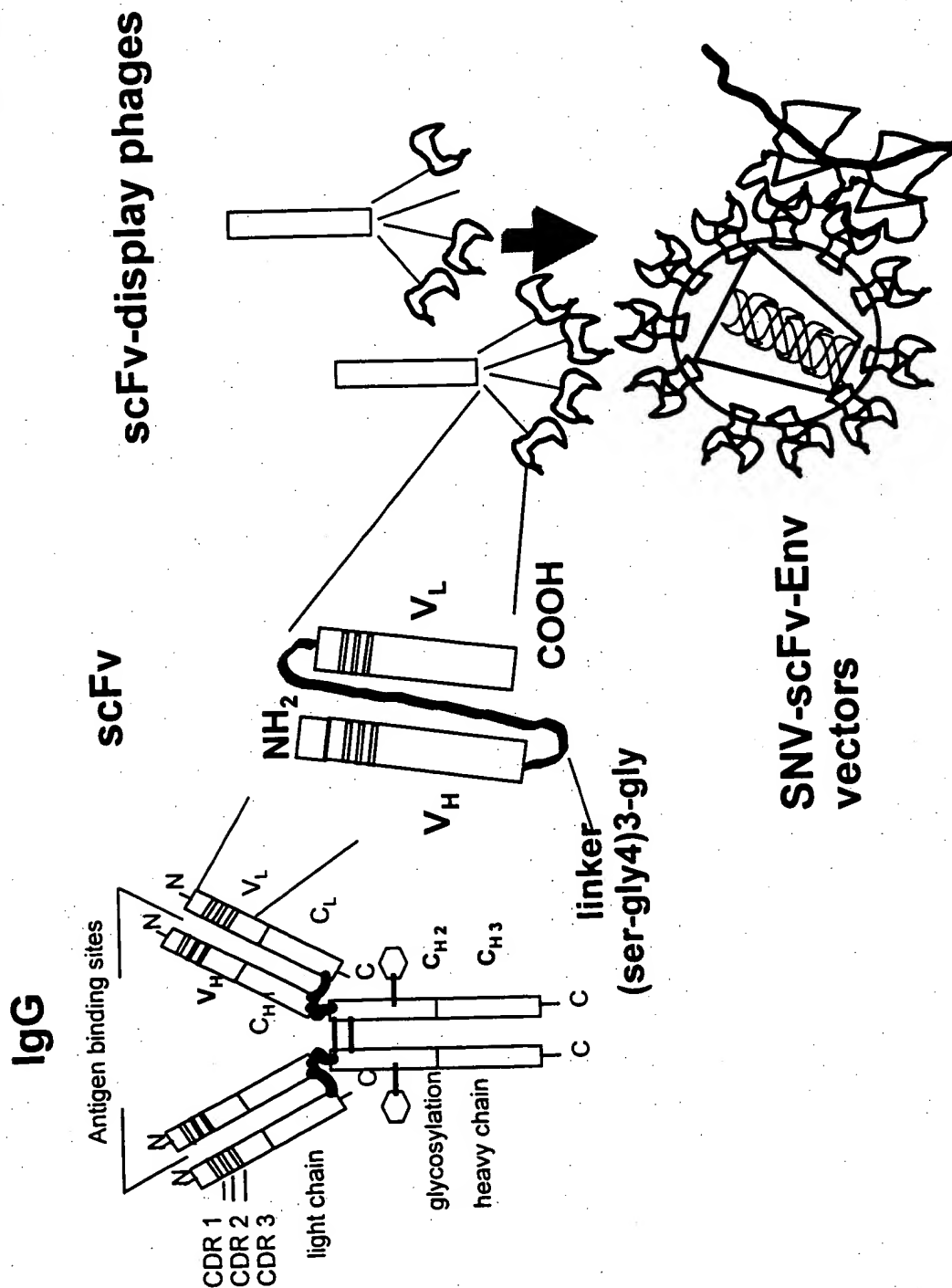


Fig. 3

PTC53.SEQ [1 to 4776] -> Genes

DNA sequence 4776 b.p. GATTTCCTTAC ... AGAGAGGAGAT linear

[illegible]

**Fig. 4 (page 1 of 6)**





889	TCC	ACT	TTC	TTC	TCT	CCA	CAG	GTC	TCC	ACT	CCC	AGG	TCC	AAC	GGG	ATC	CGA	GCT	CCA	GGG	TAA	AGGTGGCT	965			
3	S	T	L	P	F	S	P	Q	V	S	T	P	R	S	N	R	I	R	A	P	R	*	25			
966	GGG	AGC	GGG	GGG	TCC	ACC	ACT	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	1129				
1																						35				
1055	GAG	GGT	AAA	GTT	GAC	CAG	GGG	AGC	AAA	ATC	CTA	ATT	CTC	CTT	CTG	TGG	TGG	GGG	TTT	GGG	ACC	ACT	GGC	GAA		
11	E	G	K	V	D	Q	A	S	K	I	L	I	L	L	V	A	W	G	F	G	T	T	A	E		
1130	GTT	TGG	ACT	GGC	GGC	TCC	GGG	GGC	GGC	GGT	TCT	GGT	GGT	GGT	GGT	GGT	GGT	TCT	GGT	GGT	GGT	GGT	TCT	1204		
36	V	S	T	A	G	S	G	G	G	G	S	G	G	G	G	G	G	G	S	G	G	G	S	60		
1205	GGC	GGC	AGC	CCA	GTC	CAG	TTT	ATC	CCC	CTG	CTT	GTG	GGT	CTA	GGG	ATT	TCA	GGG	GGT	ACA	CTT	GCT	GGC	ACG		
61	G	A	S	P	V	Q	F	I	P	L	L	V	G	L	G	I	S	G	A	T	L	A	G	T		
1280	GGG	CTT	GGG	GTC	TCC	GTT	CAC	ACT	TAT	CAC	AGG	CTC	TCT	AAI	CAA	TTC	ATT	GAA	GAT	GTC	CAG	GCT	TCA	GGG		
86	G	L	G	V	S	V	H	T	Y	H	K	L	S	N	Q	L	I	E	D	V	Q	A	L	S		
1355	ACC	ATC	ATC	ATC	GAC	CTA	CAG	CAG	ATT	GAC	TCC	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	CTG	1429		
111	T	I	N	D	L	Q	D	Q	I	D	S	L	A	E	V	V	L	Q	N	R	R	G	L	135		
1430	TTG	ACT	GGC	GAA	CAA	CGA	CGA	CGA	ATA	TGT	CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC	1504		
136	L	T	A	E	Q	G	G	G	I	C	L	A	L	Q	E	K	C	F	Y	A	N	K	S	160		
1505	GTA	GGT	GAC	AAG	ATC	CGA	AAA	CTC	CAA	GAG	GAC	CTT	ATC	GAG	AGA	AAA	CGT	GCA	CTG	TAC	GAC	AAC	CCC	CTG	1579	
161	V	R	D	K	I	R	K	L	Q	E	D	L	I	E	R	K	R	A	L	Y	D	N	P	L	185	
1580	AGC	GGC	TTG	AAC	GGC	TTC	CTT	CTA	TAT	TTG	CTA	GGC	TTG	TGA	GGC	CCC	CTG	TTT	GGG	CTC	ATA	TTC	TTT	CTG	1654	
186	S	G	L	N	G	F	L	P	Y	L	L	P	L	L	G	P	L	F	G	L	I	L	F	L	T	210

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1655 CTC GCG TGC ATT ATG AAG ACC CTG ACT GCG ATT ATA CAT GAC AAA ATT CAG GCA GTA AAA TCC TAG CACTAGTC 1731  
 211 L G P C I M K T L T R I I H D K I Q A V K S \* 233  
 1732 CCAAGTACAGCCACTGCCACAGAG ATG GAT ACC CTA GCG GTC CGA TGG TCT AAG AAT TCT CGA GTC TAA GATCGATCGAAT 1815  
 1 M D T L G V R W S K N S R V \* 15  
 1816 TCTTAGGTC AAT ATT TGA CCGA ATG TAC AAG AGC AGT GGG GAA TGT GGG AGG GGC TTA CGA AGG CCT TAA GTGACTA 1894  
 1 M I \* M Y K S S G E C G R G L R R P \* 16  
 1895 GGTACCCGATCCAGAC ATG ATA AGA TAC AAT CAT GAG TTT GGA CAA ACC ACA ACT AGA ATG CAG TGA AAAAA ATG CTT 1972  
 1 M I R Y I D E F G Q T T R M Q \* M L 2  
 1973 TAT TTG TGA AATTGTG ATG CTA TTG CTT TAT TTG TAA CCATTATAGCTGCGATTAACAGTAAACAAATTCATTCATTTT 2060  
 3 Y L \* M L L L Y L \* 7  
 2061 ATG TTT CAG GTT CAG GCG GAG GTG TGG GAG GTT TTT TAA AGCAAGTAAACCTCTACAAATCAGCTGGCAAGCTAGATCTAGCTT 2147  
 1 M F Q V Q G E V W E V F \* 13  
 2148 GCGTAAATC ATG GTC ATA GCT GTT TCC TGT TGA AAA TTG TTA TCC GCT CAC AAT TCC ACA CAA CAT ACG AGC CGG 2222  
 1 M V I A V S C V K L L S A H N S T Q H T S R 22  
 2223 AAG CAT AAA GTG TAA AGCTGGGGTGGCTA ATG AGT GAG CTA ACT CAC AAT AAT TCC GTT GCG CTC ACT GCG CGC TTT 2300  
 23 K H K V \* M S E L T H I N C V A L T A R F 16

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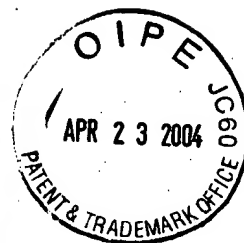


[illegible]

**Fig. 4 (page 4 of 6)**



3326	AAT GCT TAA TCAGTGAAGCAACGATCTCAGCGGTGTCATTGGTTCCATCCATGTTGCCCTACTCCCGCTGGTAGCATTAATACTGCATACCGCA	3422 12
10 N A	M I P R D P R S P A P D L S A I N Q	
3423	GCCCTAACATCTGGGCGGAGTGCTGCA ATG ATA CCG CGA GAC CCA CGC TCA CCG CCT CCA GAT TTA TCA GCA ATA AAC CAG	3504 18
1		
3505	CCA GOC CGA AGG GCC GAG CCC AGA AGT GGT CCT CGA ACT TTA TCC GGC TTC ATC CAG TCT ATT ANT TGT TCC CCG	3579 43
19 P A G R A E R R S G P A T L S A S I Q S I N C C R		
3580	GAA GCT AGA GTA AGT AGT AGT AGT TTG CGC AAC GTT GGT GGT ATT GCT ACA GGC ATC ATC GTG GTG TCA	3654 68
44 E A R V S S S P V N S L R N V A I A T G I V V S		
3655	CGC TCG TCG TTT GGT ATG GCT TCA TTC AGC TCC GGT TCC CAA CGA TCA AGG CGA GTT ACA TCA TCCCC ATG TTG	3729 2
69 R S S F G M A S F S S G S Q R S R R V T *		
3730	TCC AAA AAA GCG GTT AGC TCC TTC GGT CCT CCG ATC GTT GTC AGA AGT AAG TTG GCC CCA GTG TTA TCA CTC ATG	3804 27
3 C K K A V S S F G P P I V V R S K L A A V L S L M		
3805	GTT ATG CCA GCA CTG CAT AAT TCT CTT ACT GTC ATG CCA TCC GTA AGA TGC TTT TCT GTG ACT GGT GAG TAC TCA	3879 52
28 V M A A L H N S L T V M P S V R C F S V T G E Y S		
3880	ACC AAG TCA TTC TGA GAATAGTGT ATG CCG CGA CCG AGT TCC TCT TCC CCG GCG TCA ATA CCG GAT AAT ACC CCG	3954 17
53 T K S F * M R R P S C S C P A S I R D N T A		
3955	CCT AAT AGC AGA ACT TTA AAA GTG CTC ATC AAT GGA AAA CTT TCT TCG GCG CGA AAA CTC TCA AGG ATC TTA CCG	4029 42
18 P H S R T L K V L I I G K R S S G R X L S R I L P		
4030	CTG TTG AGA TCC AGT TCG ATG TAA CCCACTGTGTCACCGACGATCTTCAGCATTTTACTTTCACGAGGTTCTGGTGAGCAAAAC	4121 50
43 L L R S S S M *		



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4122 AGGAGGCAAA ATG CCG CAA AAA AGG GAA TAA GGGGACACGGAA ATG TTG AAT ACT CAT ACT CTT CCT TTT TCA ATA 4199  
 1 M P Q K R E M L N T H T L P F S I 11

4200 TTA TTG AAG CAT TTA TCA GGG TTA TTG TCT CAT GAG CGG ATA CNT ATT TGA ATG TAT TTA GAA AAA TAA ACAATA 4275  
 12 L L K H L S G L L S H E R I H I M Y L E K 6

4276 GGGTTCCCGCACNTTTCGCGAAGAGTCCACCTGACGCTAAGAAACATTATATC ATG ACA TTA ACC TAT AAA AAT AGG CGT ATC 4365  
 1 M T L T Y K N R R I 10

4366 ACG AGG OOC TTT CGT CTC GCG GGT TTC GGT CAT GAC GGT GAA AAC CTC TGA CAC ATG CAG CTC CCG GAG ACG GTC 4440  
 11 T R P F R L A R F G D D G E N L M Q L P E T V 7

4441 ACA GGT TGT CTG TAA GGG ATG CCG GGA GCA GAC AAC CCC GTC AGG GCG CGT CAG CGG GTG TTG GCG GGT GTC GCG 4516  
 8 T A C L \* M P G A D K P V R A R Q R V L A G V G 19

4517 GGT GGC TTA ACT ATG CCG CAT CAG AGC AGA TTG TAC TGA GAGTCCACCAT ATG CCG TGT GAA ATA CCG CAC AGA TGC 4593  
 20 A G L T M R H Q S R L Y M R C E I P H R C 9

4594 GTA AGG ACA AAA TAC CCG ATC AGG CCG CAT TCG CCA TTC AGG CTG CCG AAC TGT TGG GAA GCG CGA TCG GTG CCG 4668  
 10 V R R K Y R I R R H S P F R L R N C W E G R S V R 34

4669 GCC TCT TCG CTA TTA CCG CAG CTG GCG AAA GCG GGA TGT GGT GCA AGG CGA TTA AGT TCG GTA ACG CCA GCG TTT 4743  
 35 A S S L L R Q L A K G C A A R R L S W V T P G F 59

4744 TCC CAG TCA CCA CGT TGT AAA ACG ACG GGC AGT 4776  
 60 S Q S R R C K T T A S 70

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